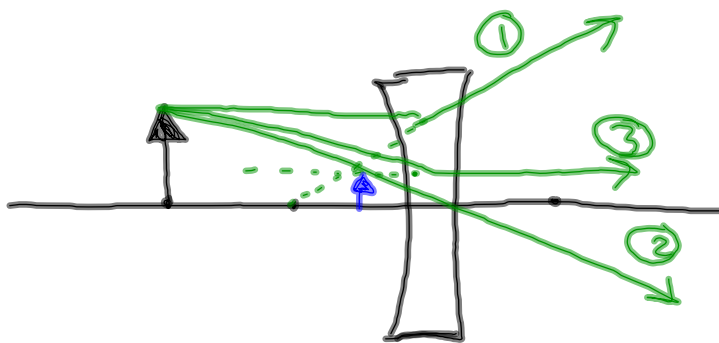


Diverging lens with focal length of 10 cm. Object placed at 20 cm from the lens. Calculate  $d_i$ ,  $M$ , and  $h_i$  (if  $h_o = 5$  cm). Draw a ray diagram to verify.



$$f = -10 \text{ cm}$$

↑ Diverging lens

$$d_i = \left[ \frac{1}{f} - \frac{1}{d_o} \right]^{-1}$$

$$= -6.67 \text{ cm}$$

$$M = .333$$

$$h_i = 1.67 \text{ cm}$$

